

1.0 General:

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11. Provide all work, equipment, services, labor, and materials for the construction of new electrical systems as described or implied by the contract documents.
12. The drawings are diagrammatic and are not intended to include every detail of construction, materials, and equipment. Take accurate field measurements at the job site in lieu of scaling the drawings.
13. Resolve the contract document of all trades and coordinate all work with the other trades as necessary to avoid conflicts and interferences.
14. Review the contract documents and comply with applicable state, local, and national codes (including OSHA) throughout the project.
15. Work with the latest edition of the National Electrical Code and meet all requirements for the minimum standard of acceptance.
16. Obtain and pay for any and all required permits.
17. Locations indicated for outlets, equipment, etc., are approximate and shall be verified by the Contractor, by instruction on the drawings.
18. Provide only new materials and equipment listed and labeled (for the use intended) by an approved third party laboratory such as Underwriter's Laboratories, Inc.
19. Submit shop drawings and catalog data in six (6) copies for light fixtures, panelboards and all special systems.
20. Free-Stoping Scaffolding shall be used to seal all floor and wall penetrations.
21. Conduit shall be Schedule 40 PVC, zinc-coated EMT with compression connectors or Galvanized Rigid Steel (GRS).
22. Provide access doors in walls and ceiling for access to pull boxes, accessories, etc., where necessary. Doors shall be sealed as required (minimum for X 157) with a finish to match the room in which it is installed.
23. Steel all conduit penetrations through fire-rated walls or floors with UL labeled, Fire Seal.
24. Minors:
25. Conductors shall be copper, THHN/THWN, sized for #10 AWG or #12 AWG, and stranded for all larger sizes. All conductors shall be color-coded.
26. All conductors and cables shall be installed in conduits and tested for continuity and ground before being energized.
27. The conduit and all electrical equipment and devices shall be grounded. Provide an equipment grounding conductor with every circuit. No conduit shall contain more than three phase conductors.
28. Ductless:
29. All wiring devices shall be heavy duty specification grade, Hubbell, known brand, or approved equal.
30. Receptacles shall be heavy duty specification grade, grounding type, arranged for side and back wiring with separate single or double grounding terminals. Receptacles shall be straight blade rated 20 amperes, 125 volt.
31. Provide a single multi-gang box and device plate for all group mounted wiring devices.
32. Decals and cover plate color and match the wall finish, paint colors to the Design Office for final selection.
33. Switches shall be heavy duty, quiet type, single pole, three way or four way as indicated on the plans. Switches shall be grounding type with hot lead grounding screw rated for 20 amperes, 120/277 volts A.C. only.
34. Lighting Equipment:
35. All light fixtures shall be provided complete with lamps, all necessary accessories, and as indicated on the drawings.
36. All fluorescent lamps shall be rapid start, energy saving, 32 watt nominal, 2925 lumens, 20,000 hour minimum, 3500K, except T8, lamps shall be 2300K. All incandescent lamps shall be long life, 130 V types.
37. Ballasts shall be electronic, energy saving, high power factor, UL and BSM listed, types.
38. Panelboards:
39. Motor Control Centers and Disconnect Switches shall be Square D, Siemens, GE or approved equal.
40. Transformers shall be factory assembled, general purpose, wet/dry type distribution transformers. Provide primary windings top tapping operation. Transformers shall be 115V temperature rise above 40C ambient with 230VC insulation system.
41. Electrical Identification:
42. Equipment identification labels shall be engraved plastic laminate. Install on each unit of equipment, including control or master unit of each system. This includes power, lighting, communication, signal, and alarm systems, unless units are specified with their own label. Labels shall be 1-1/2 inches high; label, where two lines of text are required, use labels 2 inches high. Use white lettering on black field. Apply labels using mechanical fasteners.
43. Circuit identification labels shall be installed on boxes. Install labels externally using pressure-sensitive, self-adhesive labels.

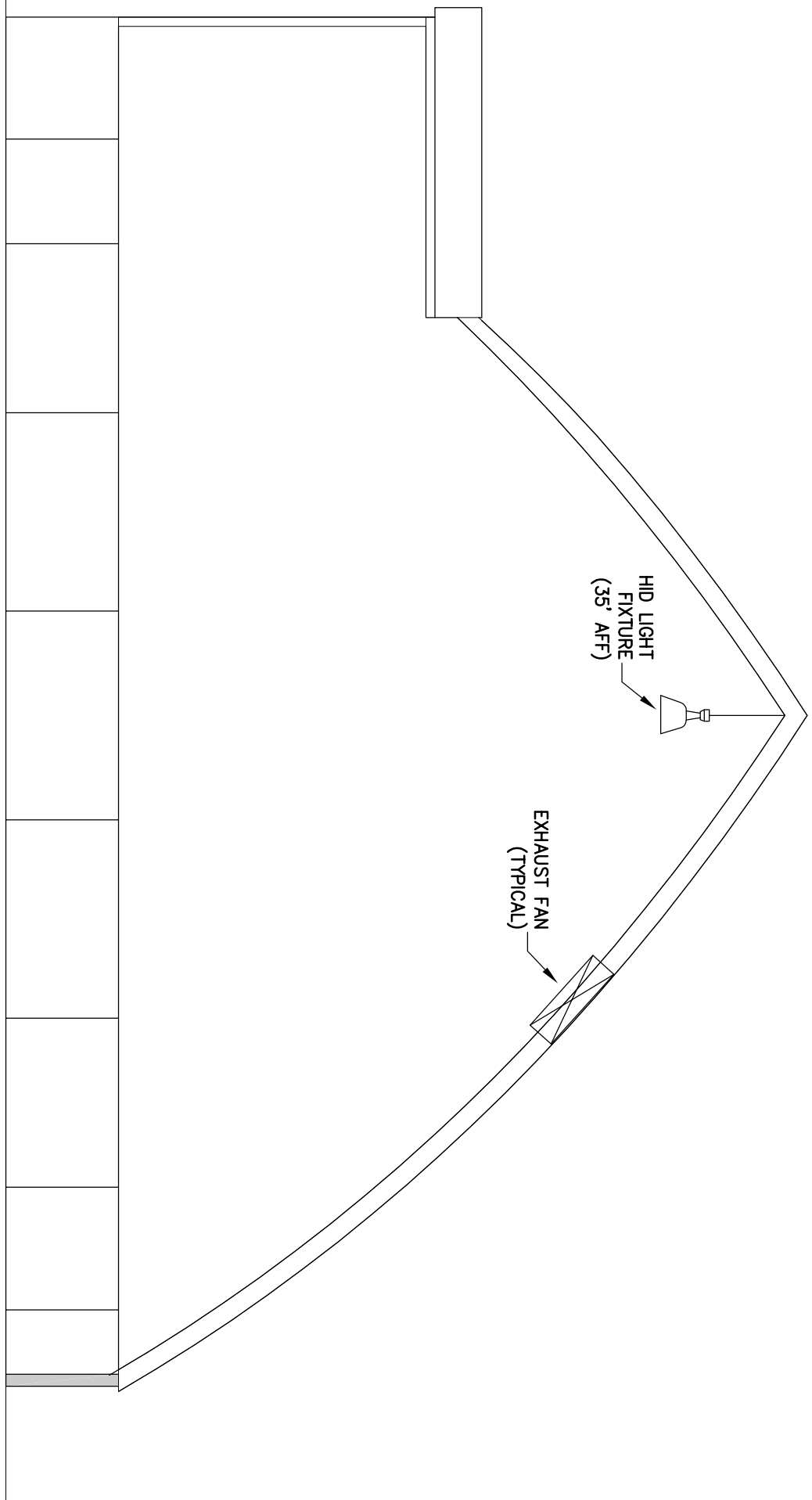
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LIGHT FIXTURE SCHEDULE

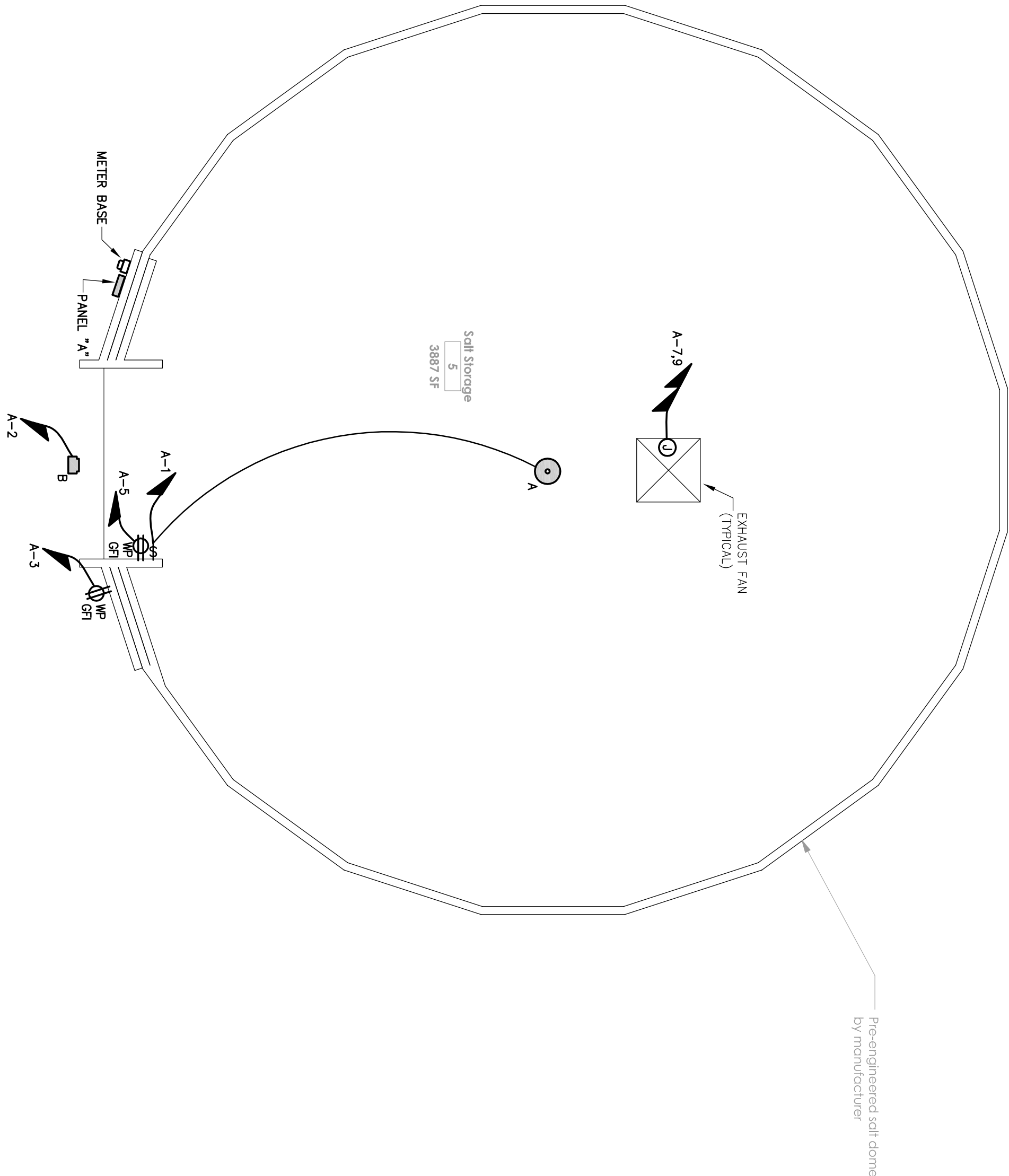
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPING	VA	VOLT	REMARKS
A	ENCLOSED HIGH BAY SPINAL ALUMINUM REFLECTOR WITH CLEAR TEMPERED GLASS LENS	DAY/BRITE	HE10XPM/CP-PSC-742E	1000W METAL HALIDE	1080	120	QUARTZ STANDARD CORROSION PROOF PAINT ON THE IBE AND THE EXTERIOR OF THE REFLECTOR, NO SUPPLY STAINLESS STEEL, HARDWARE WHERE POSSIBLE
B	SEMI-FULL GUTTER WALL PACK, DIE CAST ALUMINUM POWER FACTOR BALAST	US INDUSTRIES	SPEC. WB-250-PSMAHF 1000W/400-100	250W METAL HALIDE	300	120	PLATE GUTTER PHOTOCELL, BLACK PAINT

FIGURES SHALL BE APPROVED WITH ALL NECESSARY MOUNTING HARDWARE, OPTIONS, AND COMPONENTS AS REQUIRED FOR THE INSTALLATION AND AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.













FIXTURE "A" SHALL BE CORROSION RESISTANT



1 **Electrical Power Plan**
E101 SCALE: 1/8"=1'-0" SECTION VIEW

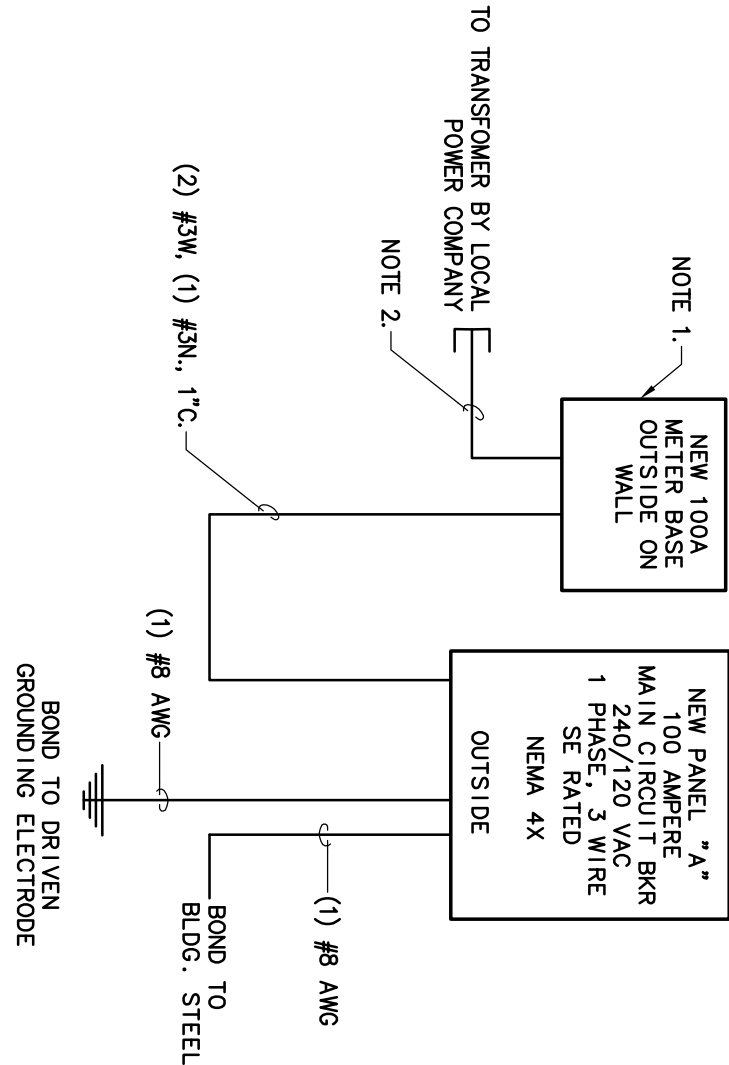


2	Electrical Power Plan
E101	SCALE: 1/8"=1'-0" PLAN VIEW

ELECTRICAL SYMBOLS	
	METAL HAZE LIGHT FIXTURE
	METAL HAZE WALL PACK
	LIGHT SWITCH (3-WAY - 4-WAY) AS INDICATED
	HOOFERIN TO PANEL, "A" W/ (2) #12, (1) #12 GRND.
	UNSWITCHED LIGHTING CIRCUITRY
	SWITCHED LIGHTING CIRCUITRY
	DUPLEX RECEPTACLE
	DISCONNECT SWITCH FUSE AS SPECIFIED
	DISTRIBUTION PANEL, AS SPECIFIED
	JUNCTION BOX
	WEATHERPROOF
	GROUND FAULT INTERRUPTER

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NEC 300.6 (PROTECTION AGAINST CORROSION AND DETERIORATION).



NOTES:

1. VERIFY METER BASE REQUIREMENTS WITH LOCAL UTILITY.
2. VERIFY ANY REQUIREMENTS BY LOCAL UTILITY FOR CONTRACTOR TO PROVIDE AND INSTALL CONDUIT.

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JOB NUMBER: 08-040
DRAWN: ANR
CHECKED: JDH
DATE: 11-4-2008

Electrical Power Plan

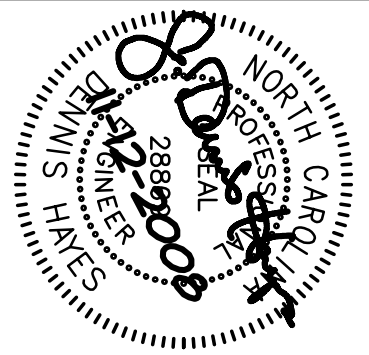
E101

REVISIONS

1840 Camden Ave
Durham NC

Salt Dome - City of Durham

ROUGHTON · NICKELSON · DE LUCA
Architects, PA



3608 University Drive, Suite 204
Durham, NC 27707
T 919.490.1266 F 919.490.1396
www.RNDpa.com